

Date: Tue, 8 Feb 94 04:30:27 PST
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V94 #26
To: Ham-Ant

Ham-Ant Digest Tue, 8 Feb 94 Volume 94 : Issue 26

Today's Topics:

2m - 70cm combo antenna, the Ray Gun
Antenna Erection Aids (2 msgs)
Copper Dual-Band Super J-Pole Antenna
Effective Raditated Power? (2 msgs)
new radio communications mailing list
Rotor problem
TEMPEST - Electronic Eavesdropping
Through-the-glass antennas

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 6 Feb 1994 13:53:09 GMT
From: netcomsv!netcomsv!bongo!julian@decwrl.dec.com
Subject: 2m - 70cm combo antenna, the Ray Gun
To: ham-ant@ucsd.edu

In article <cac9gc2w164w@pilloock.moron.vware.mn.org>
stevej@pilloock.moron.vware.mn.org (Steven Jarosh, KA0VYB) writes:
>There was a question sometime back about a combo antenna for 2m and 70cm.
>There were two articles in 73 Mag and I have only found one so far.

There was an article on a combo 2M/70cM vertical antenna combo
in the March 1990 issue of The Amsat Journal.

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Julian Macassey, N6ARE julian@bongo.tele.com Voice: (310) 659-3366
Paper Mail: Apt 225, 975 Hancock Ave, West Hollywood, California 90069-4074

Date: Sun, 6 Feb 1994 14:42:42 GMT
From: netcomsv!netcomsv!bongo!julian@decwrl.dec.com
Subject: Antenna Erection Aids
To: ham-ant@ucsd.edu

Recently, there was much correspondence about getting antennas up in trees. Short of hiring a trained monkey, there are various ways of getting a line up on a high limb. The favourites seemed to be: bow and arrow or catapult (sling shot) and spinning (fishing) reel with a weight.

The most compact and least troublesome is the catapult and fishing reel combo. It is small and allows you to reel the line back. For the standard anti-social contester, it also means being able to do it alone, so you don't have to be nice to your neighbours or fellow hams so they will help you get that top band dipole up. The bow and arrow solution can use a fishing reel, but usually involves a second person to hold a rod and line while someone does the Robin Hood stuff. The second person often ends up being a grumpy spouse who needs no further persuasion that amateur radio is a waste of time, money and useful house space.

For those appliance operators that would like the catapult and reel option but lack the motivation or skills to attach a \$10.00 reel to a \$10.00 catapult with \$00.02 of duct tape there is a solution.

For only \$39.95, you can buy a fishing reel catapult combo designed for the job. Call Chicago's Telecom Expert, 812 Nerge Road, Roselle, Illinois 60172. Phone (708) 980-7710 (24 Hours). Order the "Sling-A-Line". All the usual credit cards accepted.

--

Julian Macassey, N6ARE julian@bongo.tele.com Voice: (310) 659-3366
Paper Mail: Apt 225, 975 Hancock Ave, West Hollywood, California 90069-4074

Date: Tue, 8 Feb 1994 06:26:57 GMT
From: agate!library.ucla.edu!news.ucdavis.edu!chip.ucdavis.edu!
ez006683@network.ucsd.edu
Subject: Antenna Erection Aids

To: ham-ant@ucsd.edu

Jeffrey D. Angus (jangus@skyld.tele.com) wrote:

: Why, in my day, we used to have to raise our own cats and ducks. Finding
: the pults was a tad tricky, but could be done with the skillful adaptation
: of a snipe bag.

The real trick to capturing pults in a snipe bag is the pult call. It is a little known fact that pults actually have no real ears. They 'hear' things through ground vibrations they pick up in their bellys. This explains why they have evolved a garfield like belly that drags on the ground. If you slowly send cq cq cq cq pult cq pult by stomping your foot on the ground you can often attract them. The only difficulty being that there has been a recent influx of no-code pults. For these it is best to try and hold a large speaker to the ground, but this only works at much closer range.

Dan

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*-----*
* Daniel D. Todd      Packet: KC6UUD@KE6LW.#nocal.ca.usa      *
*                    Internet: ddtodd@ucdavis.edu              *
*                    Snail Mail: 1750 Hanover #102             *
*                    Davis CA 95616                           *
*-----*
*      I do not speak for the University of California....    *
*      and it sure as hell doesn't speak for me!!            *
*-----*
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Date: Tue, 8 Feb 1994 06:52:05 GMT
From: news2.uunet.ca!dmog10.bell.ca!bcocok!vega!ydupont@uunet.uu.net
Subject: Copper Dual-Band Super J-Pole Antenna
To: ham-ant@ucsd.edu

Did someone build that antenna from KA0NAN that was on the April issue of "73 Amateur Radio Today"? What are your experience with it? Ease of construction and performance???

Please reply directly to: ydupont@qc.bell.ca

Thanks & 73,
Yvan (VE2YDU)

Bell SYGMA, Telecom Solutions
30 Renaud, Loretteville (Qc) CANADA G2A 2K7
TEL: 418-843-7564 FAX: 418-842-9559
Internet: ydupont@Qc.bell.CA HAM: VE2YDU

Disclaimer: The opinions expressed here are mine and not my employer's.

Date: 6 Feb 1994 22:20:18 GMT
From: pacbell.com!sgiblab!swrinde!cs.utexas.edu!howland.reston.ans.net!torn!
csd.unb.ca!coranto.ucs.mun.ca!gdunphy@network.ucsd.edu
Subject: Effective Raditated Power?
To: ham-ant@ucsd.edu

tstein@monolith.d.umn.edu (Tom Stein) writes:

>I have a quick question:

>Say I have 40 watts coming out of the back of my radio. My feedline is
>1.4dB per 100 ft. I have 100 feet of feedline... Then my antenna, a 11 el.
>beam has 11dB gain on it. Can someone tell me what the effective radiated
>power of my system would be? And a formula would help....

>Tom Stein (N0UJK)

>(Please post only, I do not have e-mail access.)

>Thanks!

40 watts is 16 dBW, subtract 1.4 dB for the feedline, add 11 dB for the
antenna, and your ERP is 25.6 dBW or 365 watts. X dBW (db referenced to
1 watt) is $10 \log Y$, where Y is your power in watts, X your power
expressed in dBW, and log is log to the base 10.

Is this what you were looking for?

--

Gerard Dunphy | "If you don't want to play with old geezers, you
gdunphy@engr.mun.ca | have to make golf a contact sport!" Calvin

Date: Thu, 3 Feb 1994 13:44:12 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
news.cac.psu.edu!news.pop.psu.edu!ra!usenet@network.ucsd.edu
Subject: Effective Raditated Power?
To: ham-ant@ucsd.edu

SOME PREVIOUS SUBSCRIBERS HAVE APPARENTLY SENT
THEIR MESSAGE TO: martin@cod.nosc.mil. I HAVE
NOT RECEIVED THESE MESSAGES. If you have
subscribed but have not received an informational
message from me, try sending another message.

Brett F. Martin
Naval Command, Control, and Ocean Surveillance Center
San Diego CA

martinb@cod.nosc.mil

Date: Thu, 3 Feb 1994 13:58:25 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
vixen.cso.uiuc.edu!uwm.edu!msuinfo!uchinews!att-out!cbnewsh!k4bnc@network.ucsd.edu
Subject: Rotor problem
To: ham-ant@ucsd.edu

My old Alliance HD73 rotor developed indicator problems after the ice storm
a couple of weeks ago. I'm wondering if anyone can suggest what failure could
account for these symptoms. I normally leave the antennas facing west when
not in use. When the antennas are west, the direction meter indicates
correctly. I take this to mean that the wiring is intact. If I turn more
than a few degrees CCW toward the south stop, the meter will drop to zero and
will stay there while the rotor turns all the way to south. If I turn more
than a few degrees CW, the meter will peg at full scale and stay there for the
full rotation to the other south stop.

This rotor has been in use since 1979 carrying 2 or 3 antennas in a mast mount
configuration. I am considering whether it is time to replace it. I no
longer see the HD73 in catalogs so an exact replacement or even spare parts
might be hard to get. Any experience or suggestions on a good unit?
I have used the CDR(now HyGain) CD45 in the past and I do not think it is
heavy duty enough.
John K4BNC
~

Date: 6 Feb 1994 21:08:33 GMT
From: pacbell.com!sgiblab!sdd.hp.com!math.ohio-state.edu!howland.reston.ans.net!
EU.net!uknet!bhamcs!news@network.ucsd.edu
Subject: TEMPEST - Electronic Eavesdropping
To: ham-ant@ucsd.edu

Transient Electromagnetic Pulse Emanation Standard (TEMPEST) is the US standard defining the amount of electromagnetic radiation that a device may emit without compromising the information it is processing.

In the US it not illegal to posess TEMPEST-surveillance equipment but it is illegal to take appropriate counter-measures to prevent surveillance. The US government has refused to release details of its TEMPEST research and has restricted the dissemination of independent research by classifying it.

The US Drug Enforcement Agency (DEA) makes use of TEMPEST secured electronics and computers as they believe that the drug cartels may possess surveillance equipment.

I am interested in gathering comments on the social, legal, ethical, and technical aspects of use of TEMPEST surveillance equipment in the US and Europe with the aim of including it in a discussion of the threats to computer/digital systems.

Please reply by E-mail. I will provide a summary to anybody who requests one.

thanks, - Rob Jackson

(more information on TEMPEST can be found in the paper
"Eavesdropping On the Electromagnetic Emanations of Digital
Equipment: The Laws of Canada, England, and the US" by
Cristopher Seline - available on FTP from csrc.ncsl.nist.gov)

Date: Thu, 3 Feb 1994 13:14:07 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
newsserver.jvnc.net!news.cac.psu.edu!news.pop.psu.edu!ra!usenet@network.ucsd.edu
Subject: Through-the-glass antennas
To: ham-ant@ucsd.edu

This past year I bought a new car, a 1993 Saturn. I want to install a 2-meter through-the-glass antenna on the rear window. However, I noticed that the top of the window is tinted opaque black. Question: is this tinting metallic or otherwise conductive? If it is, then I guess a though-the-glass antenna is out of the question. Anybody know anything about this?

Dave

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End of Ham-Ant Digest V94 #26
